

# इंटरनेट

# मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 9017 (1979): Needle, Fine, Spear Pointed, Curved Left, Zoellner's Pattern [MHD 4: Ear, Nose and Throat Surgery Instruments]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”



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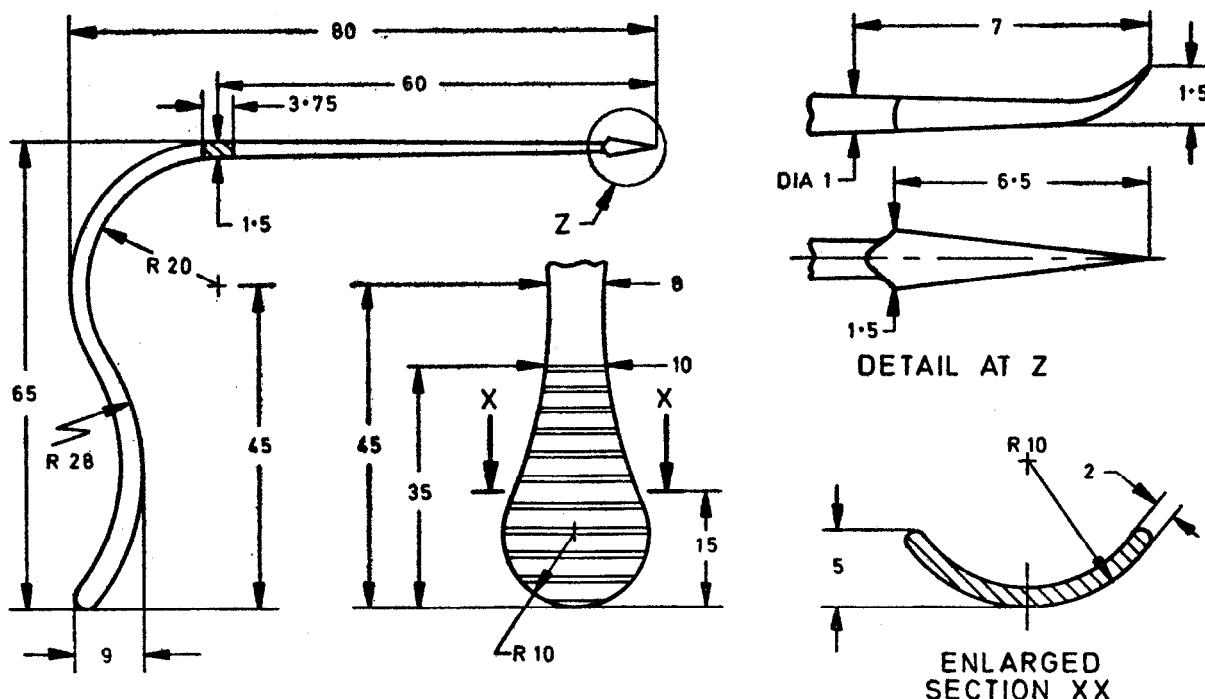
Indian Standard



# SPECIFICATION FOR NEEDLE, FINE, SPEAR POINTED, CURVED LEFT, ZOELLNER'S PATTERN

**1. Scope** — Dimensional and other requirements for left curved spear pointed Zoellner's fine needle used in ENT microsurgery.

**2. Shape and Dimensions** — As shown in Fig. 1.



All dimensions in millimetres.

FIG. 1 NEEDLE, FINE, SPEAR POINTED, CURVED LEFT, ZOELLNER'S PATTERN

**2.1** A deviation of  $\pm 2.5$  percent shall be allowed on all dimensions.

**3. Material** — Stainless steel conforming to Designation 30Cr13 of IS : 6603-1972 'Specification for stainless steel bars and flats'.

## 4. Workmanship and Finish

**4.1** The needle shall be free from burrs, scales, pits and other defects.

**4.2** The edges shall be rounded except the working end which shall be spear pointed.

**4.3** The needle shall be matt finished and passivated.

**4.4** Proper grooves shall be provided for good holding of the thumb.

**4.5** The needle shall be forged in one piece to the required shape and size.

**4.6** The needle shall be well balanced and symmetrical to the centre line.

**5. Heat Treatment** — The needle shall be hardened and tempered to a hardness of 380 to 480 HV.

Adopted 30 January 1979

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**6. Test**

**6.1 Performance** — The working end of the needle shall be pierced through a piece of natural rubber, 3 mm thick, at 6 different places. On completion of the test the needle shall show no sign of damage.

**6.2** The needle shall satisfy the boiling and autoclaving test as mentioned in IS : 7531-1975 ' Method for boiling and autoclaving test for corrosion resistance of stainless steel surgical instruments '.

**7. Marking** — The needle shall be marked with the manufacturer's name, initials or recognized trade-mark.

**7.1 ISI Certification Marking** — Details available with the Indian Standards Institution.

**8. Packing** — Each needle shall be thoroughly cleaned, preferably ultrasonically, and dried before packing. The needle shall be wrapped in moisture-proof paper or packed in polyethylene bag. Each needle shall then be packed in individual carton in such a way that its working end is protected from coming in contact with hard surface resulting in any damage. The needle may also be packed as agreed to between the purchaser and the supplier.